

A1 of moving parts in the treatment chamber affords low maintenance and thus provides increased production and associated economical benefits.

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Please delete the section of the specification starting on page 11 with "Figure 2:" and ending on page 14 with "38. Soil treatment tray." and substitute therefor:

Figure 1:

- A2
29. Process Burner
 30. Radiant tube emitter
 31. Combustion Exhaust Vents
 32. Heater Base Assembly
 33. High temperature silicone gasket material which seals exhaust manifold to tray top edge.
 34. 1 to 100 micron filter media and support frame which acts as a physical barrier to stop particulates from exiting the system in the air stream.
 35. Air extraction manifold
 36. Hydraulic cylinder for lifting exhaust manifold.
 37. Exhaust gas outlet.
 38. Soil treatment tray.
 39. Means for generating a vacuum.

Figure 2:

1. Shaft support beam which houses the bearing and shaft that is connected to the matrix mixing flights.
2. Slotted screened bottom of tray which contains the contaminated matrices during processing.
3. Mixing flight which moves through matrix contained in tray to facilitate mixing of matrices during processing.
4. Hydraulic motor which drives mixing flights.
5. Slave sprocket which reduces power requirements and drives flights.
6. Drive chain which connects slave sprocket to drive sprocket.

7. Drive sprocket which is coupled to hydraulic motor for driving mixing flights.
8. Protective housing to keep hydraulic motor from hostile environments.
14. Agitator tray used to process matrices prior to, during and after introduction of chemical additives to enable treatment of certain inorganic contaminants.
16. High temperature support bearing which allows slave shaft to rotate.
17. Central drive shaft in which flights are attached.

Figure 3:

- A2
2. Slotted screened bottom of tray which contains the contaminated matrices during processing.
 19. Hinge to dump gate for matrix removal following treatment.
 20. Dump gate door which swings open to dump matrices.
 21. Dump gate latch which prevents gate from opening during treatment.
 22. Forklift pick-up pocket enables the forklift to move, load, unload and dump trays.
 27. Bottom screen support to support weight of matrix loaded into trays.
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IN THE CLAIMS

Please amend the claims as follows:

Please cancel claims 4, 9, 13, 16, and 20-35 without prejudice or disclaimer to their reintroduction, for instance in a future application.

Please enter the following amended claims:

- A3
1. (Amended) An apparatus for the separation of waste constituents from matrices, comprising:
 - (i) a vessel having an interior for receiving matrices;
 - (ii) a manifold for removal of gases emerging from said matrices, said manifold being positioned on top of said vessel; and
 - (iii) a means for heating said interior.